

E-Band High Power Fixed Attenuator

WR-12/60.5-91.9GHz/20 $\pm$ 1dB Attenuation

Model: TLFA-20-WR12-40

TLFA-20-WR12-40 is a 20 dB high power fixed attenuator that is used in millimeterwave systems and operates from 60.5 to 91.9 GHz. The input and output port configuration offers an inline structure with WR-12 waveguides. Other attenuation values are available under different model numbers as TLFA-XX-WR12-40, where XX is the desired attenuation value.

Features:

- Full Band Coverage
- 10/20/30dB Available
- Good attenuation flatness
- Good Return Loss

Applications:

- Test Equipment
- RF Over Fiber
- Communication Systems
- Radar Systems

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
频率范围 Frequency range	60.5		91.9	GHz
衰减量 Attenuation Value		20		dB
衰减平坦度 Attenuation Flatness		± 1		dB
衰减度波动 Attenuation Fluctuation		± 1		dB
驻波 VSWR			1.4	:1
功率容量 Power Handling			10	W

机械特性 Mechanical Specifications:

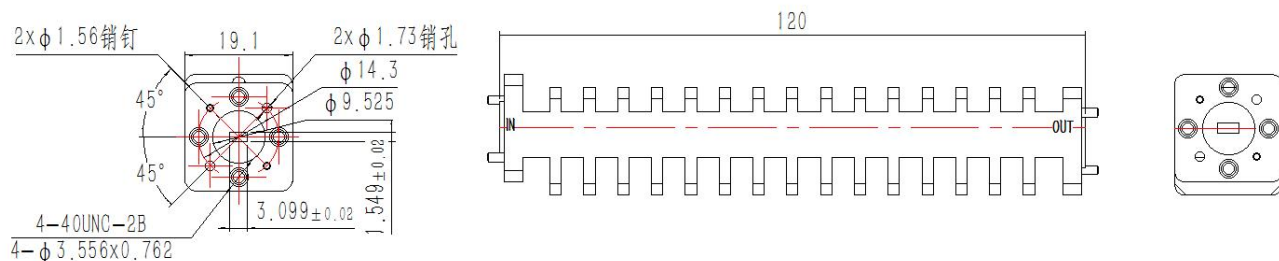
参数 Parameter	指标 Value	单位 Units
输入/输出接口 Input /Output Connector	WR-12	
材质 Material	Brass	
表面处理 Finish	Gold Plated, spray ice gray paint	
尺寸 Size	19.1*19.1*120	mm

绝对最大值 Absolute Maximum Ratings:

参数 Parameter	指标 Value
输入功率 RF Input Power	+40dBm

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-10		+65	°C
存储温度 Non-operating Temperature	-45		+85	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TLFA-20-WR12-40	WR-12 Waveguide High Power Fixed Attenuators; 60.5-91.9GHz, 20±1dB Attenuation	Rev.1.0